

With the **PROTON** Series, **CHIEFTEC** advances into the new-age **DC to DC power supply technology**. The series allows for energy conservation, as well as a much higher efficiency and power stability, which in turn ensures a higher longevity of installed components. The efficiency of the **PROTON** Series is certified at **80 PLUS® BRONZE** thereby fulfilling all **ENERGY STAR 5.0** and higher requirements as stipulated by the EU.



Technical data



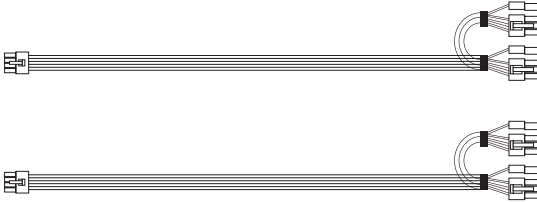

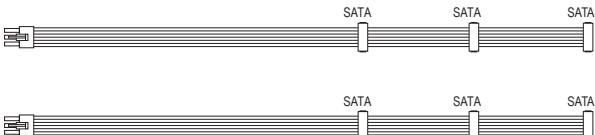
Model	Proton 650W
Artikel no.	BDF-650C
EAN code	4710713231283
Weight (without/with package)	2.20 kg / 2.70 kg
Specification	ATX 12V 2.3
Form factor	PS II
Efficiency	80 PLUS® Bronze
PFC	Active PFC (0.9)
Fan	140mm silent fan
Dimension (DxWxH)	160mm x 150mm x 87mm
Security	AFC (Automatic Fanspeed Control) OCP (Overcurrent Protection) OPP (Overload Protection) OTP (Over Temperature Protection) OVP (Overvoltage Protection) SCP (Short-circuit Protection) SIP (Surge & Inrush Protection) UVP (Undervoltage Protection)
Warranty	24 Months

Output data

Proton 650W	AC Input	100-240V 50-60Hz 10A				
	DC Output	+3.3V	+5V	+12V	-12V	+5VSB
	Max. Current	22A	22A	54.2A	0.3A	2.5A
	Max. Combined Power	120W		650W	3.6W	12.5W
		650W				

* The listed specifications may be altered at any point in time without any pre-notice.

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	Cable	Connectors	Length (mm)
	24 PIN (20+4)	1	500
	8 PIN EPS (4+4)	1	550
	8 PIN PCI-E (6+2)	4	2x 500/150
	MOLEX	3	450/150/150/150
	FLOPPY	1	
	SATA	6	2x 450/150/150

Certification



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